CS-1630

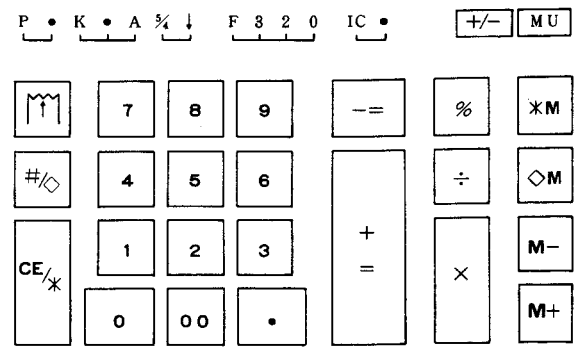
SHARP SERVICE MANUAL 1104

CODE : 00ZCS1630SM/E

MODEL CS-1630

STANDARD FUNCTION	10 digits	1 M	
DISPLAY SECTION	1,234,567,890. M E		
	ELEMENT: Display tube	PARTS NAME: 13-BT-70ZB	
	NUMERAL: 10 digits	SYMBOL: 1 digit(s)	
	8 (7.8 × 3.6) (mm)	M E	
LSI	Name : LI24741		
	Type : Dual in line		
	Pin : 52pins		
POWER SUPPLY	AC: ○	DC: X	
● BATTERY TYPE	AC only		
● OPERATION TIME			

KEY LAYOUT



KEY SYSTEM: QSR-2 key

AC ADAPTOR	
RECHARGEABLE BATTERY	
POWER CONSUMPTION	220, 240V: 20.6W, CANADA: 17.7W, Multi: 12.8W
AUTO POWER OFF TIME	minutes
MEMORY PROTELT	
DIMENSIONS(mm)	220 (W) 296 (D) 79.5 (H)
CALCULATIONS	

Four arithmetic calculations, constant multiplication and division, power calculation, add-on/discount calculation, repeat addition and substraction, adding mode, reciprocal calculation, item count calculation, make-up calculation, etc.

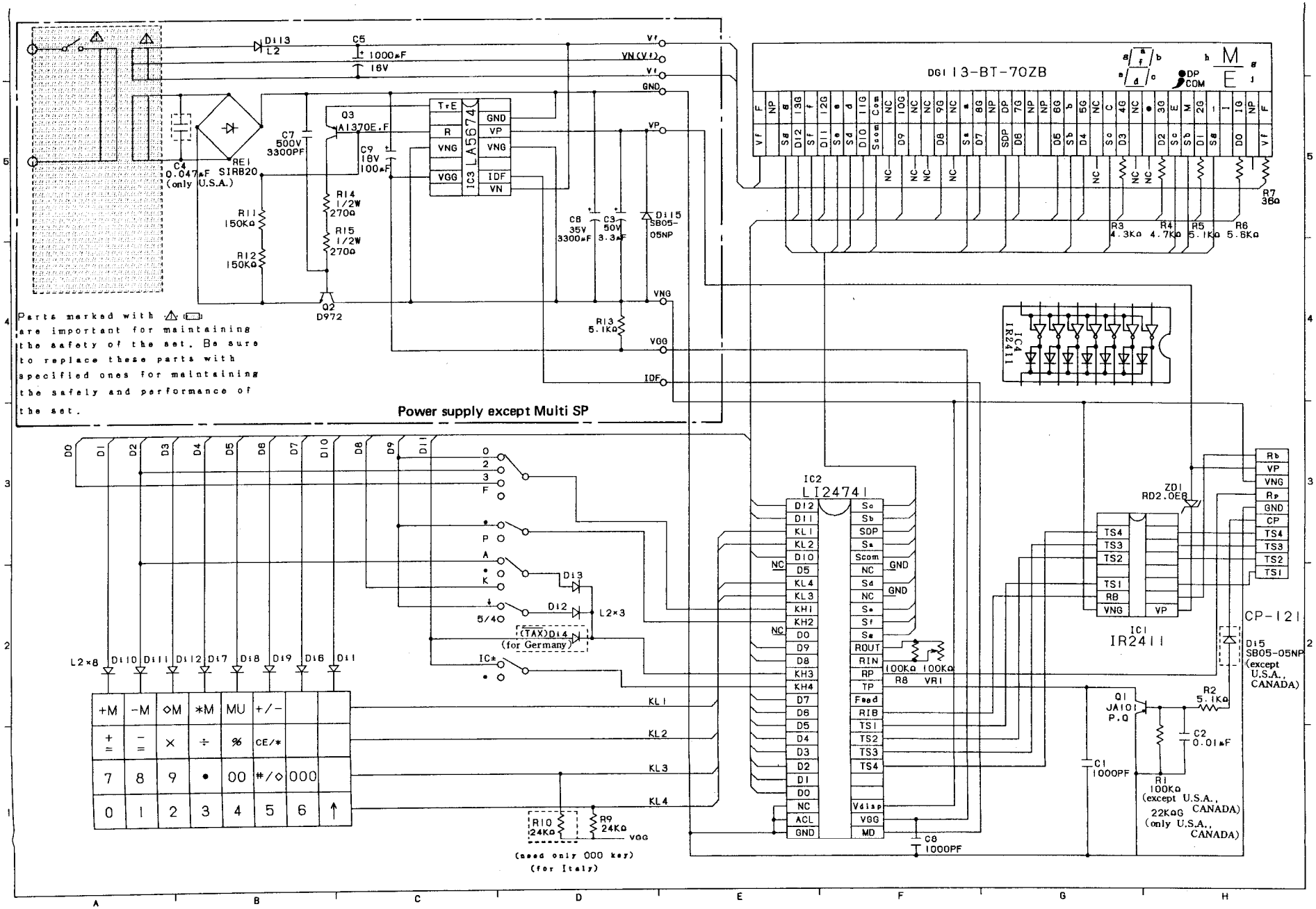
PRINTER SECTION

MODEL NAME	CP-121 (KI-0B1035CCZZ)
PRINTING SYSTEM	Flying method
PRINTING CAPACITY	12 digits
CHARACTER DIMENSION	1.6 (W) 2.8 (H) mm
INPUT BUFFER	12 stages
PRINTING SPEED	Approx. 3.0 lines/sec.
PAPER FEED SPEED	Approx. 3.0 lines/sec.
PAPER RELEASE MECHANISM	Yes
INK RIBBON	2 colors system (Red, Black)
INK ROLLER	
PAPER	Plain paper
PAPER SIZE (Roll paper)	58^{+0}_{-1} mm(W), 80 mm in diameter (max.) DPAPR1004CSZZ . . . 5 rolls/pack

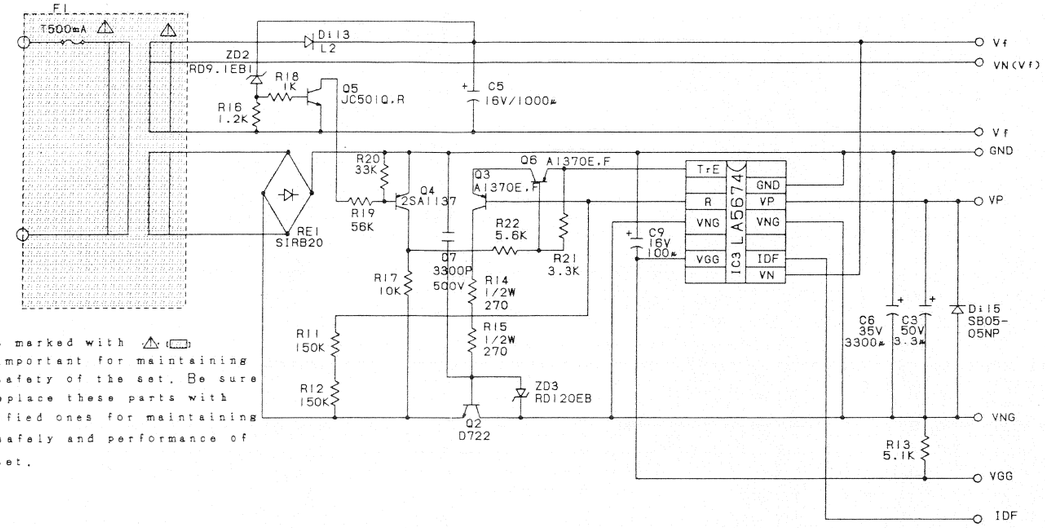
SHARP CORPORATION

1104

1. CIRCUIT DIAGRAM


Parts marked with ⚠ are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safely and performance of the set.
Power supply except Multi SP
DGI13-BT-70ZB
IC1 IR2411
IC2 LI24741
IC3 LA5674
IC4 IR2411
CP-121
(for Germany)
(need only 000 key) (for Italy)
(except U.S.A., CANADA)
(only U.S.A., CANADA)

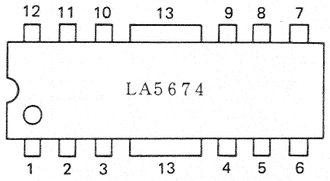
2. CIRCUIT DIAGRAM (POWER SUPPLY) FOR MULTI SP



Parts marked with ⚠ are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

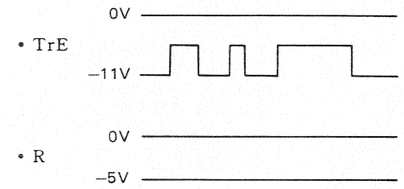
3. POWER SUPPLY IC (LA5674)

Printer motor brake incorporated power supply IC



Pin No.	Signal name	In/Out	Signal description
1	TrE	Out	VNG control signal
2	TrB	—	N.C.
3	R	Out	VNG control signal
4	HS	In	Detect level signal
5	VGG	Out	CPU power supply (−9V during display)
6	F4	In	Dispaly voltage control signal (−32V)
7	VN	Out	Display power supply (H: Display cut, L: Display)
8	iDF	In	Printer control signal
9	VCN	Out	Converter voltage select signal (−3V during printing)
10	VP	Out	Printer motor power output (+16.5V)
11	VPC	In	VP voltage adjusting pin
12	VNG	—	Display/printer reference voltage

On-display signal waveform

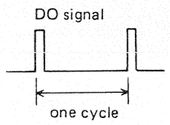


3-2. LIS clock frequency adjustment

- The following adjustment is required after replacement of the CPU.
  Clock frequency can be adjusted by varying the frequency of the DO singal (sign digit grid signal) using the potentiometer VR1.
  The DO signal frequency can be known by measuring the GND to DO signal lines using the frequency counter.

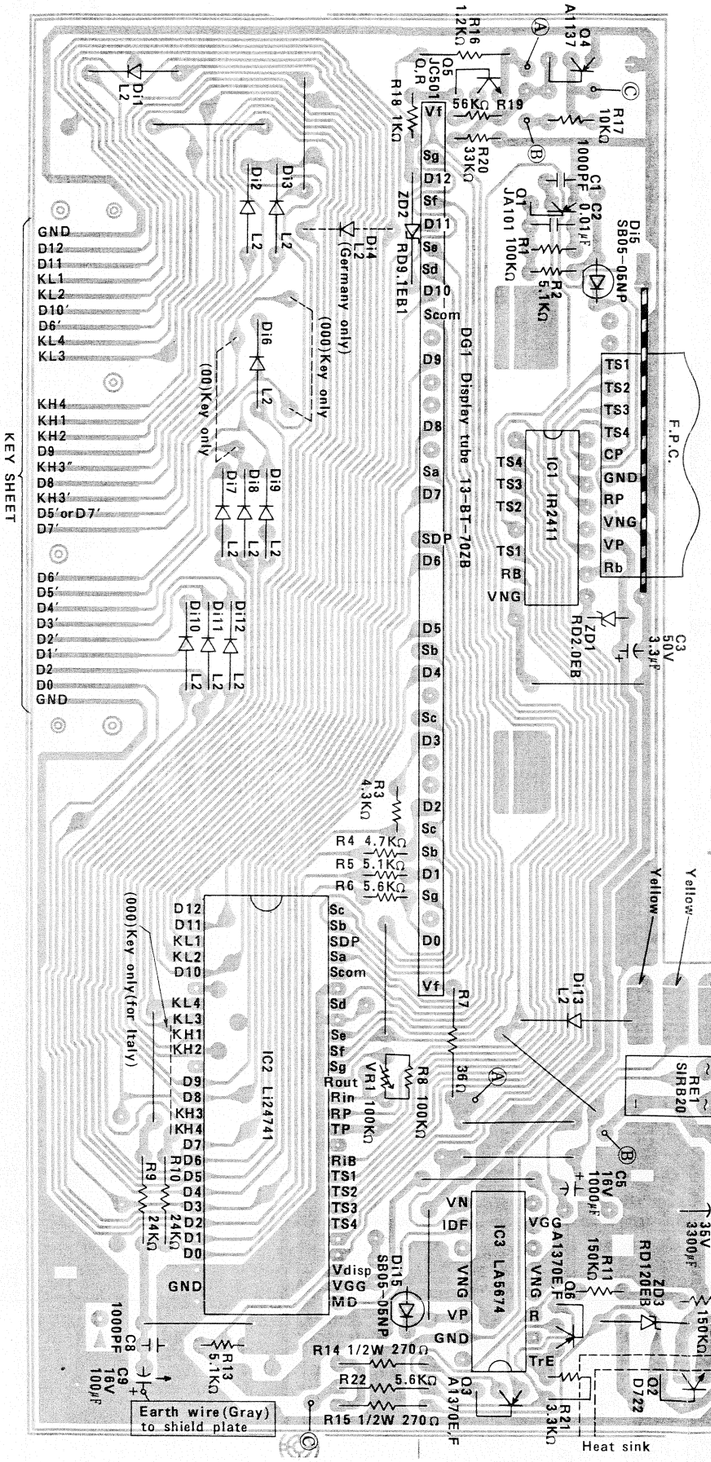
Test pin	Frequency range [ms]	Applicable model
GND-DO	10.10 ~ 10.16	CS-1630
	11.56 ~ 11.64	CS-2630

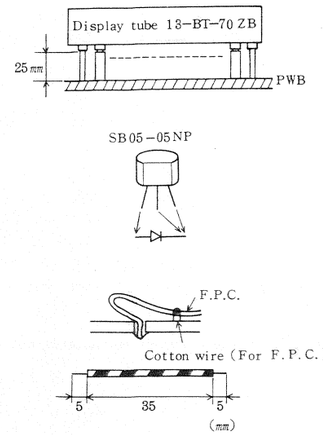
DO signal



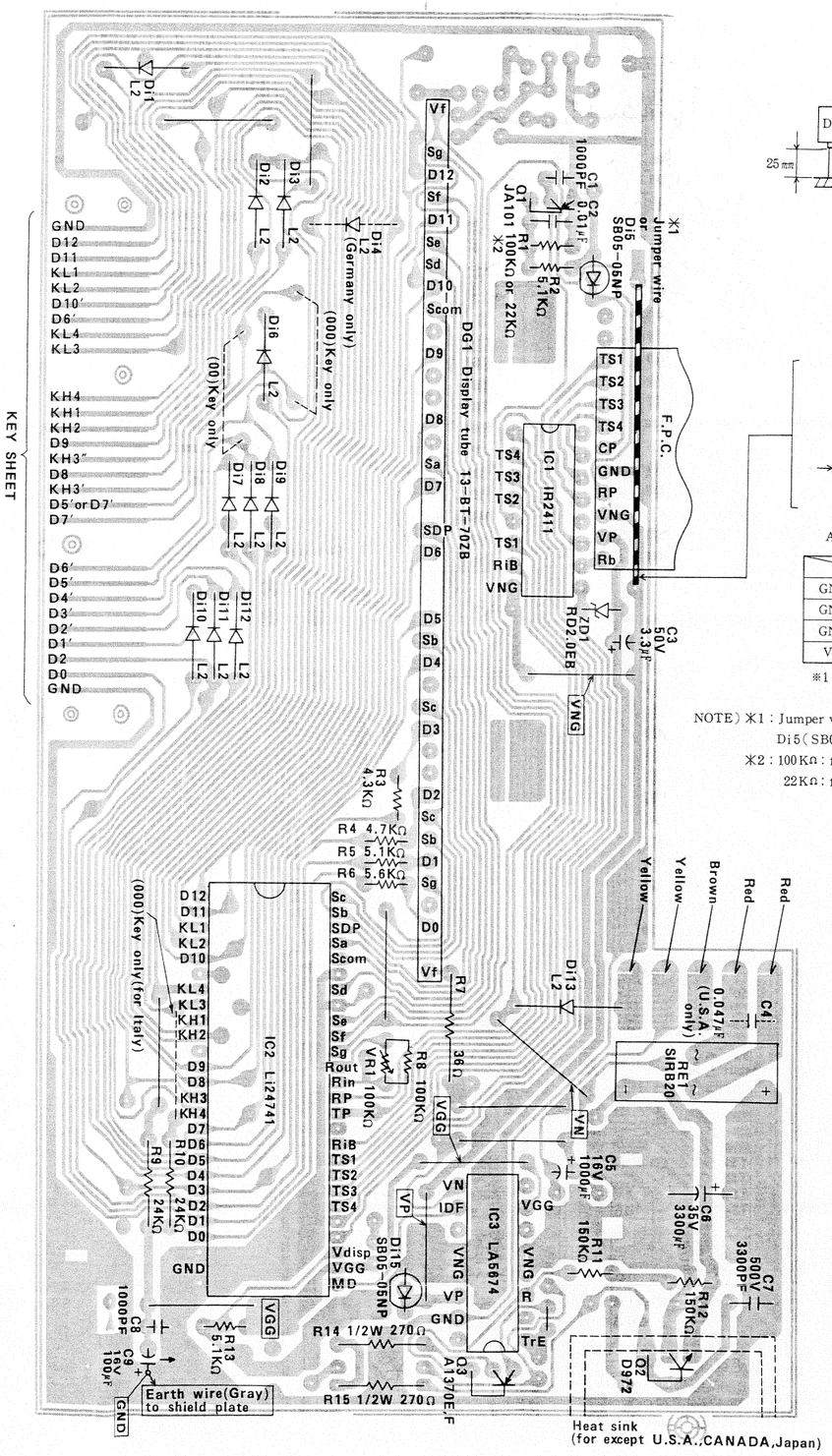
Adjustment must be done after leaving the unit in the room temperature of 10 to 30°C for 30 minutes.

4. PWB LAYOUT (FOR MULTI SP)





5. PWB LAYOUT (FOR EXCEPT MULTI SP)



A power supply voltage

	Voltage range[V]
GND − V_{GG}	8.2 ~ 9.8
GND − V_N	20.7 ~ 28.1
GND − V_{NG}	29.9 ~ 35.1
V_P − V_{NG} ※1	15.5 ~ 17.5

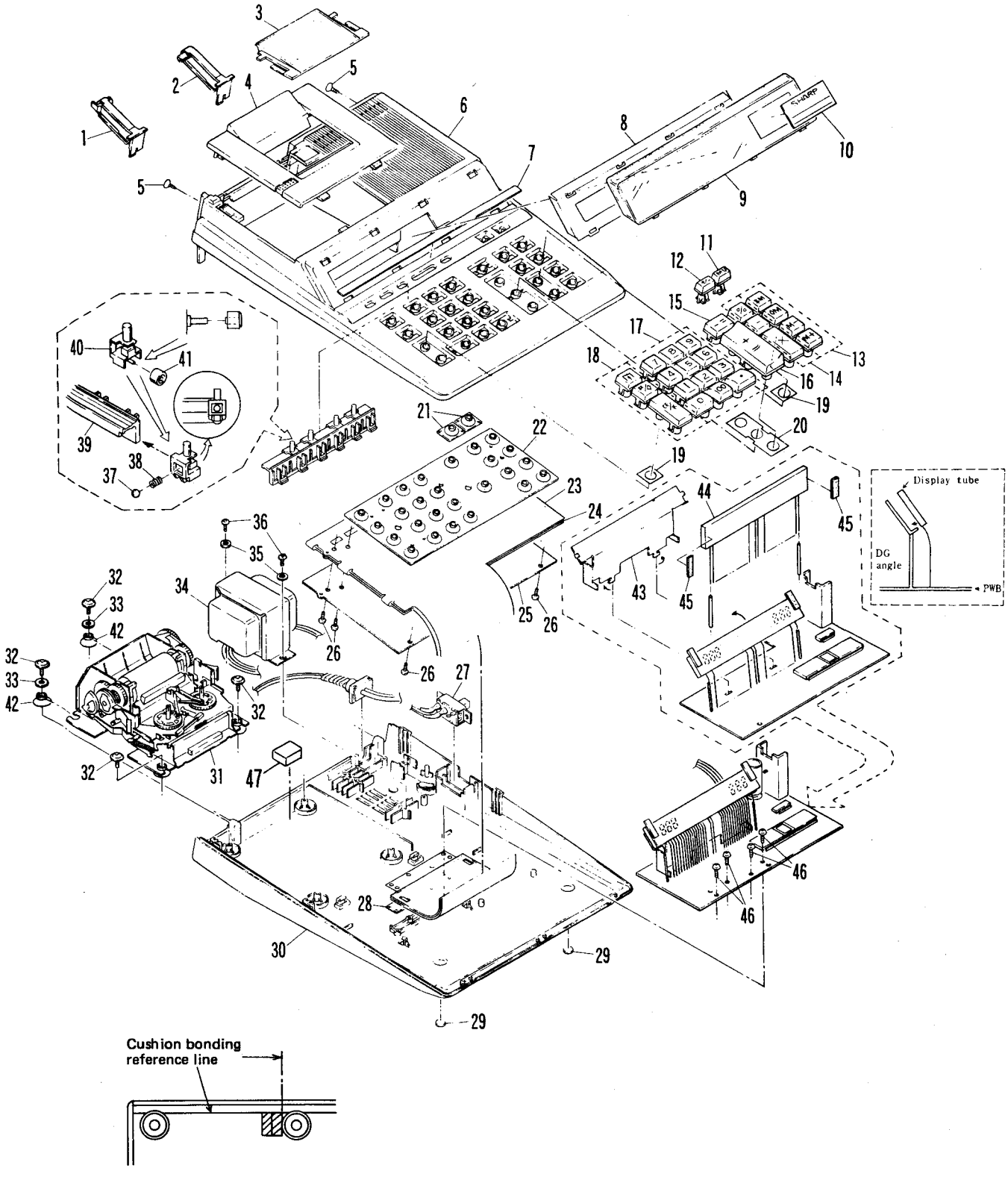
※1 Key being depressed

NOTE) ※1 : Jumper wire → for U.S.A., CANADA only
Di5 (SB05−05NP) → for except U.S.A., CANADA
※2 : 100KΩ : for except U.S.A., CANADA
22KΩ : for U.S.A., CANADA only

6. PARTS LIST & GUIDE

1 外装(Exteriors)

NO.	PARTS CODE	PRICE RANK Ex	PRICE RANK Ja	NEW MARK	PART RANK	DESCRIPTION	
1	LHLDZ1175CCL3	A B	D B		C	Paper holder (Left)	ペーパー ホルダー
2	LHLDZ1175CCR3	A B	D B		C	Paper holder (Right)	ペーパー ホルダー
3	PCUT−1030CC01	A D	D F		D	Paper cutter	ペーパーカッター
4	GCOVA1431CC01	A E	D K	N	D	Printer cover	プリンターカバー
5	XUSSM30P10000	A A	D A		C	Screw (3×10)	ビス
6	GCABB2899CC01	A P	E N	N	D	Top cabinet	ウエキャビネット
7	TLABB2453CC02	A C	D E	N	C	Dec.panel	デコ パネル
8	PSLDP1534CCZZ	A D	D F	N	C	Display mask	ヒョウジマスク
9	PFILW1567CC01	A E	D H	N	C	Display filter (KV only)	ヒョウジフィルター
	PFILW1567CCZZ	A E	D H	N	C	Display filter (Other countries)	ヒョウジフィルター
10	HPNLH1061CC04	A B	D C	N	D	Model panel (KV only)	モデルパネル
	HPNLH1061CC02	A B	D C	N	D	Model panel (Other countries)	モデルパネル
11	JKNBZ1961CC03	A B	D B		C	Key top ((MU)key and lever)	キートップ
12	JKNBZ1961CC04	A B	D B	N	C	Key top ((▽)key and lever)	キートップ
13	CKNBZ1028CCBB	A E	D H		C	Key top (＊M,◇M,M−,M+ keys)	キートップ
14	CKNBZ1027CCBB	A E	D H		C	Key top (×,÷,% keys)	キートップ
15	JKNBZ1958CC02	A C	D D		C	Key top (− = key)	キートップ
16	JKNBZ1959CC02	A E	D K		C	Key top (+ = key)	キートップ
17	CKNBZ1037CCAA	A H	D V	N	E	Key top unit (12keys)	キートップ ユニット
18	CKNBZ1026CCBB	A D	D H		C	Key top (PF,#/◇,CE/＊ keys)	キートップ
19	PFLT−1055CCZZ	A A	D A		C	Key felt (for (×)･(CE/＊)key)	キーフェルト
20	PFLT−1054CCZZ	A A	D A		C	Key felt (for (+ =)key)	キーフェルト
21	PGUMM1458CCZZ	A A	D A		B	Half key rubber (for 1 key)	ハーフ キーゴム
22	PGUMM1469CCZZ	A H	D W		B	Key rubber	キーゴム
23	PZETL348BCCMC	A K	D Y	N	B	Key sheet	キーシート
24	PZETL1478CC01	A C	D C		C	Key spacer	キースペーサー
25	LFIX−1157CCZZ	A D	D F		C	Key fixing plate	キーオサエイタ
26	XUBSD30P08000	A A	D A		C	Screw (3×8)	ビス
⚠ 27	QSW−S1247CCZZ	A E	D Q		B	Slide switch (Japan,Canada,SH,SM,SP)	スライドスイッチ
⚠	QSW−S1277CCZZ	A M	E C		B	Slide switch (Other countries)	スライドスイッチ
28	PGUMS1287CCZZ	A B	D B		B	Cushion for fixing key sheet	キーシート コテイヨウクッション
29	GLEGP1009CCZZ	A A	D A		C	Rubber foot	ゴムアシ
30	DUNTG9201CCZZ	A P	E M	N	D	Bottom cabinet unit (KV,KD,KE)	ソコキャビネットユニット
	GCABA2898CC01	A M	E G	N	C	Bottom cabinet (Other countries)	ソコキャビネット
31	KI−OB1035CCZZ	B L	L B	N	E	Printer (CP−121)	プリンター
32	LX−BZ1144CCZZ	A A	D A		C	Screw	ビス
33	XWHSD30−08100	A A	D A		C	Washer (M3)	ワッシャ
⚠ 34	RTRNP1820CCZZ	A V	F N		B	Power transformer (Japan)	デンゲントランス
⚠	RTRNP1822CCZZ	A T	F H		B	Power transformer (Canada)	デンゲントランス
⚠	RTRNP1838CCZZ	A X	F U	N	B	Power transformer (KD)	デンゲントランス
⚠	RTRNP1839CCZZ	A X	F U	N	B	Power transformer (SP)	デンゲントランス
⚠	RTRNP1823CC01	A X	F U	N	B	Power transformer (Other countries)	デンゲントランス
35	XWHSD40−08100	A A	D A		C	Washer (M4)	ワッシャ
36	XUPSD40P10000	A A	D A		C	Screw (4×10)	ビス
37	NBALS1001CCZZ	A A	D A		C	Ball for slide switch	スライドスイッチヨウ ボール
38	MSPRC1200CCZZ	A A	D A		C	Spring for slide switch	スライドスイッチヨウ スプリング
39	LFRM−1183CCZZ	A C	D D	N	C	Frame for slide switch	スライドスイッチヨウ ワク
40	MSLIP1023CC05	A B	D B	N	C	Slider for slide switch	スライドスイッチヨウ スライダー
41	PGUMR1288CCZZ	A B	D B		C	Rubber for slide switch	スライドスイッチヨウゴム
42	00CN7064−02//	A C	D C		C	Cushion for printer	プリンタークッション
43	LANGK1610CCZZ	A D	D F	N	C	DG angle	DG アングル
44	VVK13BT70ZB−1	A W	F Q	N	B	Display tube (13BT70ZB)	ヒョウジカン
45	PHOG−1060CCZZ	A A	D A		C	Display cushion	ヒョウジ クッション
46	XUBSD26P06000	A A	D A		C	Screw (2.6×6)	ビス
47	PSPAG1307CCZZ	A A	D A	N	C	Cushion	クッション
101	QTANP1094CCZZ	A A	D A		C	Terminal (Japan,Canada,SP)	タンシ
102	TCAUS1051CCZZ	A B	D B		C	Caution label for instruction book (KB only)	トリセツヨウ コーションラベル
103	TCAUS1052CCZZ	A B	D B		C	Caution label for AC cord (KB only)	ACコードヨウ コーションラベル
104	LHLDW1152CCZZ	A B	D B		C	Holder (KD,KE,KV)	ホルダー
105	QTANN6629RCZZ	A F	D P		C	Block terminal (KD,KE,KV)	ブロック タンシ
106	XBPSD30P06000	A A	D A		C	Screw (3×6)(KD,KE,KV)	ビス
107	XCPSD30P16000	A A	D A		C	Screw (3×16)(KD,KE,KV)	ビス
108	XUPSD30P10000	A A	D A		C	Screw (3×10)(SP only)	ビス
109	TCAUA1210CCZZ	A B	D B		C	Caution label (SP only)	デンアツキリ カエラベル
110	TCAUA1213CCZZ	A A	D A		C	Caution label (SP only)	デンアツキリ カエラベル
111	TLABZ1891CCZZ	A A	D A		C	Fuse label (SP only)	ヒューズラベル
112	QTANP1143CCZZ	A B	D B		C	Eath terminal of AC cord (3pin)(Canada only)	ACコードツキ アースワイヤー
113	XBPBZ40P06K00	A A	D A		C	Screw (4×6K)(Canada only)	ビス
114	LX−BZ1197CCZZ	A A	D A		C	Screw (Canada only)	ビス


Display tube
DG angle
PWB
Cushion bonding reference line

2 メイン基板ユニット(Main PWB unit)

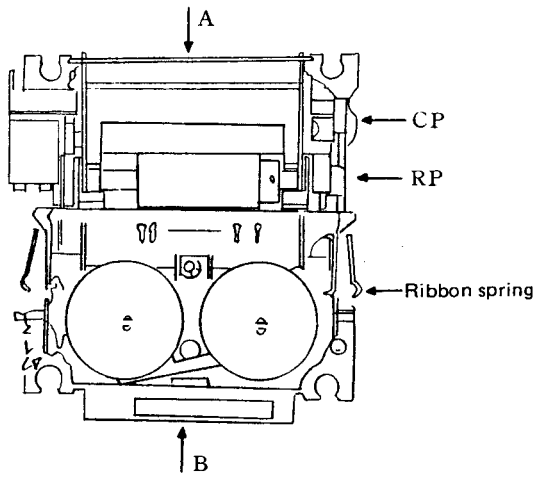
NO.	PARTS CODE	PRICE RANK Ex	PRICE RANK Ja	NEW MARK	PART RANK	DESCRIPTION		
1	LANGK1610CCZZ	AD	DF	N	C	DG angle		DG アングル
2	PHOG-1060CCZZ	AA	DA		C	Display cushion		ヒョウジ クッション
3	PRDAF1024CCZZ	AC	DD		C	Heat sink (Except Japan,Canada)		ホウネツバン
4	PSLDC1549CCZZ	AC	DC	N	C	Shield plate		シールドバン
5	QCNW-1346CCZZ	AC	DC	N	C	FPC (5pin)		FPC
6	VCKYPU1HB102K	AA	DA		C	Capacitor (50WV 1000pF)	[C1,8]	コンデンサー
7	VCQYKU1HM103K	AB	DB		C	Capacitor (50WV 0.01μF)	[C2]	コンデンサー
8	VCEAGU1HW335M	AA	DA		C	Capacitor (50WV 3.3μF)	[C3]	コンデンサー
9	VCEAGU1CW108M	AD	DF		C	Capacitor (16WV 1000μF)	[C5]	コンデンサー
10	VCEAGU1VW338M	AH	DW		C	Capacitor (35WV 3300μF)	[C6]	コンデンサー
11	VCKYPU2HB332K	AB	DB		C	Capacitor (500WV 3300PF)	[C7]	コンデンサー
12	VCEAGU1CW107M	AB	DB		C	Capacitor (16WV 100μF)	[C9]	コンデンサー
13	VHDDS1588L2-1	AB	DB		B	Diode (DS1588L2)	[DI1~4,6~14]	ダイオード
14	VHDSB0505NP-1	AA	DA		B	Diode (SB0505NP)	[DI5,15]	ダイオード
15	VHiM54530P/-1	AH	DY		B	IC (M54530P)	[IC1]	IC
16	VHiLi24741/-1	AV	FP	N	B	IC (LI24741)	[IC2]	IC
17	VHiLA5674//-1	AL	EC	N	B	IC (LA5674)	[IC3]	IC
18	VHDSiRB20//-1	AF	DQ		B	Diode (SIRB20)	[RE1]	ダイオード
19	VHERD2.0EB/-1	AB	DB		B	Zener diode (RD2.0EB)	[ZD1]	ツェナーダイオード
20	VHERD9.1EB1-1	AB	DB		B	Zener diode (RD9.1EB1)(SP only)	[ZD2]	ツェナーダイオード
21	VHERD120EB/-1	AA	DA		B	Zener diode (RD120EB)(SP only)	[ZD3]	ツェナーダイオード
22	VRD-RC2EY223G	AA	DA		C	Resistor (1/4W 22KΩ ±2%)(Canada only)	[R1]	テイコウ
	VRD-HT2EY104J	AA	DA		C	Resistor (1/4W 100KΩ ±5%)(Except Canada)	[R1]	テイコウ
23	VRD-RC2EY512J	AA	DA	N	C	Resistor (1/4W 5.1KΩ ±5%)	[R2,5,13]	テイコウ
24	VRD-RC2EY432J	AA	DA		C	Resistor (1/4W 4.3KΩ ±5%)	[R3]	テイコウ
25	VRD-RC2EY472J	AA	DA		C	Resistor (1/4W 4.7KΩ ±5%)	[R4]	テイコウ
26	VRD-RC2EY562J	AA	DA		C	Resistor (1/4W 5.6KΩ ±5%)	[R6]	テイコウ
27	VRD-HT2EY360J	AA	DA		C	Resistor (1/4W 36Ω ±5%)	[R7]	テイコウ
28	VRD-RC2EY104J	AA	DA		C	Resistor (1/4W 100KΩ ±5%)	[R8]	テイコウ
29	VRD-RB2EY243J	AA	DA		C	Resistor (1/4W 24KΩ ±5%)	[R9,10]	テイコウ
30	VRD-RC2EY154J	AA	DA	N	C	Resistor (1/4W 150KΩ ±5%)	[R11,12]	テイコウ
31	VRD-ST2HY271J	AB	DB		C	Resistor (1/2W 270Ω ±5%)	[R14,15]	テイコウ
32	VRD-ST2EY122J	AA	DA		C	Resistor (1/4W 1.2KΩ ±5%)(SP only)	[R16]	テイコウ
33	VRD-RC2EY103J	AA	DA		C	Resistor (1/4W 10KΩ ±5%)(SP only)	[R17]	テイコウ
34	VRD-RC2EY102J	AA	DA		C	Resistor (1/4W 1.0KΩ ±5%)(SP only)	[R18]	テイコウ
35	VRD-RC2EY563J	AA	DA		C	Resistor (1/4W 56KΩ ±5%)(SP only)	[R19]	テイコウ
36	VRD-RC2EY333J	AA	DA		C	Resistor (1/4W 33KΩ ±5%)(SP only)	[R20]	テイコウ
37	VRD-HT2EY332J	AA	DA		C	Resistor (1/4W 3.3KΩ ±5%)(SP only)	[R21]	テイコウ
38	VRD-ST2EY562J	AA	DB		C	Resistor (1/4W 5.6KΩ ±5%)(SP only)	[R22]	テイコウ
39	VSJA101-P//QC	AB	DB		B	Transistor (JA101-P//QC)	[Q1]	トランジスター
40	VS2SD722-//-1	AA	DA		B	Transistor (2SD722)(SP only)	[Q2]	トランジスター
	VS2SD972-//-1	AF	DR		B	Transistor (2SD972)(Except SP)	[Q2]	トランジスター
41	VS2SA1370-EFC	AA	DA		B	Transistor (2SA1370-EFC)	[Q3,6]	トランジスター
42	VS2SA1137-/-1	AD	DF		B	Transistor (2SA1137)(SP only)	[Q4]	トランジスター
43	VSJC501-Q//RC	AB	DB		B	Transistor (JC501-Q//RC)(SP only)	[Q5]	トランジスター
44	RVR-B0008PCZZ	AD	DH		B	Variable resistor (100KΩ)	[VR1]	ボリウム
⚠ 45	QFS-A0038HCZZ	AD	DH		A	Fuse (0.5A)(SP only)	[F1]	ヒューズ
46	VVK13BT70ZB-1	AW	FQ	N	B	Display tube (13BT70ZB)		ヒョウジカン
47	XBPSD30P06000	AA	DA		C	Screw (3×6)(Except Japan,Canada)		ビス

3 梱包材&付属品(Packing material & Accessories)

NO.	PARTS CODE	PRICE RANK Ex	PRICE RANK Ja	NEW MARK	PART RANK	DESCRIPTION
1	SPAKA142BCCZZ	AG	DT	N	D	Packing cushion for set / セットヨウ パッキングクッション
2	SPAKC320BCCZZ	AM	EF	N	D	Packing case (Japan) / パッキングケース
	SPAKC321BCCZZ	AM	EF	N	D	Packing case (Export) / パッキングケース
3	SPAKA547BCCZZ	AC	DC	N	D	Packing cushion for key / キーヨウ パッキングクッション
4	TiNSJ4744CCZZ	AH	DX	N	D	Instruction book / トリアツカイセツメイショ
	TiNSM4745CCZZ	AM	EE	N	D	Instruction book(E,F,G,S,I) (Other countries) / トリアツカイセツメイショ
5	GCOVD1432CCZZ	AG	DU	N	D	Dust cover (Export) / ダストカバー
6	TLSTS1006CCZZ	AA	DA		D	Service list (Japan only) / サービスリスト
7	UBNDA1008CCZZ	AA	DA		C	AC cord band / AC コードバンド
8	URBNT1007CCZZ	AG	ZZ		S	Ink ribbon / インキ リボン
9	DPAPR1004CSZZ	AS	ZZ		S	Roll paper (5rolls/pack) / ロールペーパー
10	LHLDZ1175CCL3	AB	DB		C	Paper holder (Left) / ペーパー ホルダー
11	LHLDZ1175CCR3	AB	DB		C	Paper holder (Right) / ペーパー ホルダー

7. Service precautions

7-1. Printer handling cautions



- As components are exposed for the printer, grasp the the areas A and B for handling the printer. Hold the area other than A and B, it may result in deformation, maladjustment, and damage. (Special care must be exerted to avoid cracking the printer PWB).
- Never touch the ribbon spring, areas CP and RP. When installing the ink ribbon do not add an extraordinary stress to the ribbon spring.

7-2. Installing the shield plate

1) Peel away the double tack tape on the back side of the shield plate and bond it on the bottom cabinet (Fig. 1).
* When installing shield plate, determine the location using the square hole of the shield plate and the rib of the bottom cabinet rib.
2) Fold the soldered portion of the shield plate into two (Fig. 2).
3) Place the operation PWB over the shield plate, and solder the gray earth wire (See the PWB layout chart) to the soldered part of the shield plate (Fig. 2).
4) Fasten the operation PWB on the bottom cabinet using the screw.

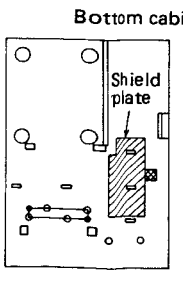


Fig. 1

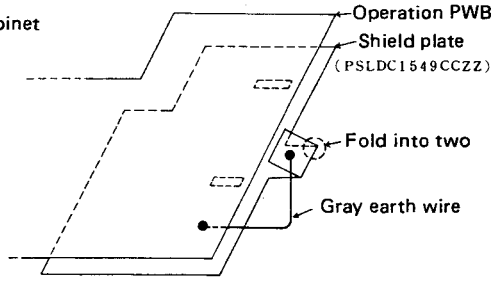
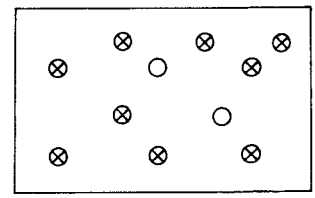
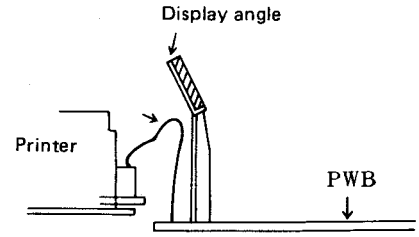


Fig. 2

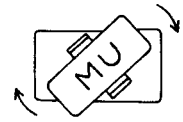
7-3. Fastening the key holding plate with screws (nine)



7-4. The printer F.P.C. must be moved towards the display angle side before the cabinet is installed.

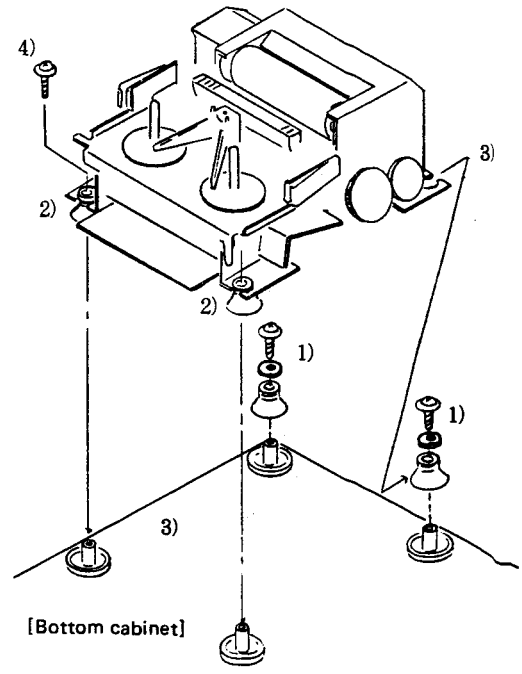


7-5. The [+/−] and [MU] keys must be inserted askew and rotated.



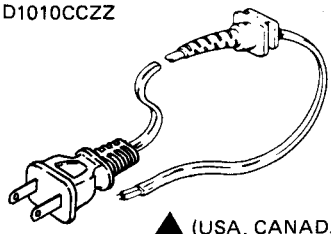
7-6. Installing the printer

1) Insert a shock absorbing rubber onto the bolt and fasten it with the footing.
2) Install a shock absorbing rubber onto the cut in the printer.
3) Insert the footing prepared in 1) into the slit of the bottom cabinet and fasten it with the screw. This has to be done at two locations of the rear part of the bottom cabinet.
4) For two footings on the front, insert the footing into the rubber and fasten it with the screw. This has to be done at two locations of the front part of the bottom cabinet.



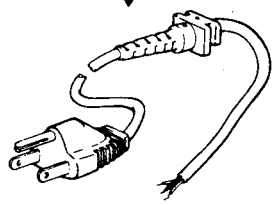
QACCD1010CCZZ

1



(USA, CANADA)

QACCD8411QCZZ



2

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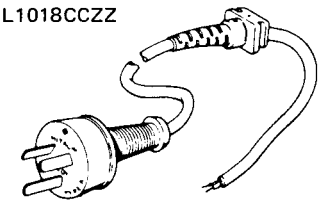
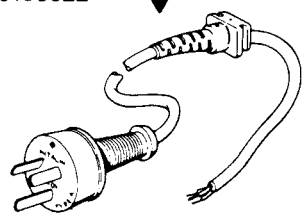
3



(KA, KC, SL)

QACCL1013CCZZ

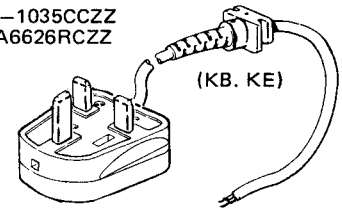


4

QCNW-1035CCZZ
QPLGA6626RCZZ

(KB. KE)

5



QCNW-1098CCZZ
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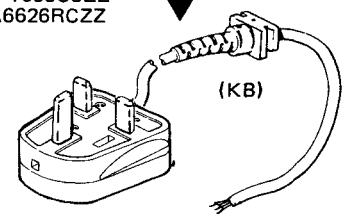
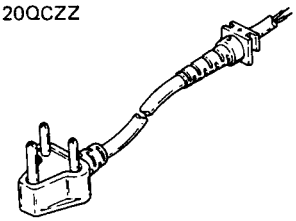
(KB)



6

QACCZ4120QCZZ

7



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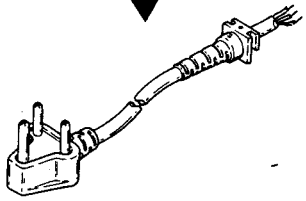
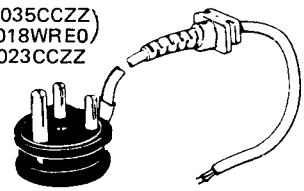
(SE)



8

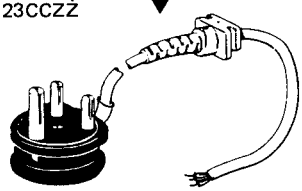
(QCNW-1035CCZZ)
(QPLGA0018WRE0)
PHOG-1023CCZZ

9



(QCNW-1098CCZZ)
(QPLGA0018WRE0)
PHOG-1023CCZZ

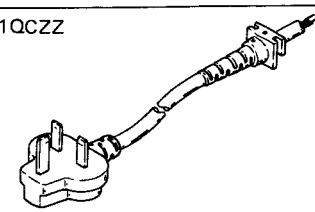
(SH)



10

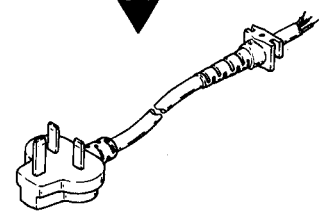
QACCZ4121QCZZ

11



QACCZ7121QCZZ

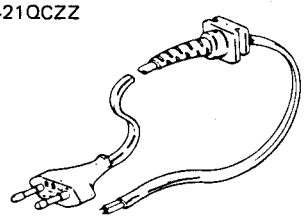
(SM)



12

QACCE1421QCZZ

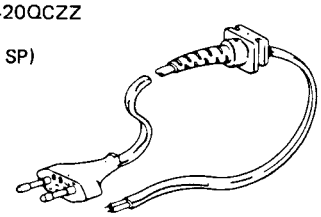
(KV)



13

QACCE1420QCZZ

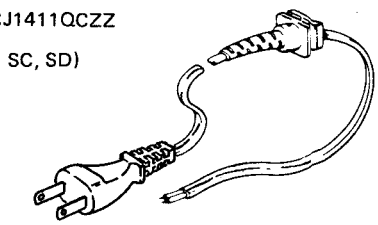
(SB, SN, SP)



14

QACCJ1411QCZZ

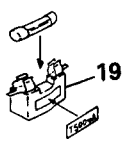
(SA. SC, SD)



15

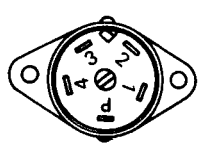
QACCE1420QCZZ
QPLGA1011CCZZ

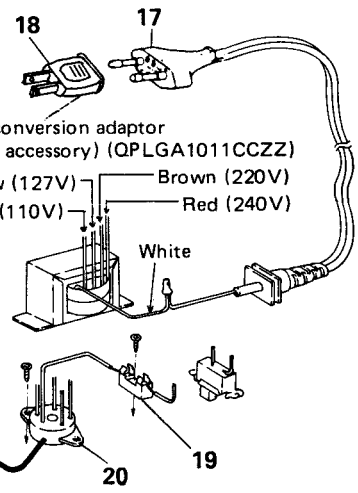
(SP)



19

P: From fuse holder
1: Brack
2: Yellow
3: Brown
4: Red





18

17

Plug conversion adaptor
(as an accessory) (QPLGA1011CCZZ)

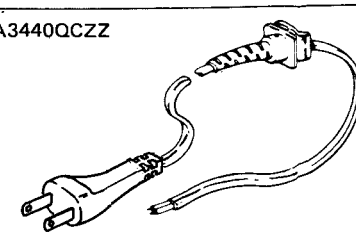
Yellow (127V)
Brown (220V)
Black (110V)
Red (240V)
White

19

20

QACCA3440QCZZ

(KD)



16

AC CORD

		Voltage (V)	Type of plug	Country
USA		120	Flat 2-pin	USA
CANADA		120	Flat 2-pin	CANADA
KA		240	Square (NSW) 3-pin	Australia
KB		240	BS 3-pin	England
KC		240	Square 3-pin	New Zealand
KD		127	Flat 2-pin	Saudi Arabia
KE		220	BS 3-pin	Saudi Arabia
KV		220	Round (SEV) 2-pin	Germany, Finland, Sweden, Norway, Denmark, Switzerland (SEV)
SA		100	Flat 2-pin	Japan, Korea
SP	SB	110/220/240	Rround 2-pin	Rumania, Spain, Trukey, U.S.S.R, Yugoslavia, Argentina, (Bolivia), (Brazil), Austria, Belgium, Bulgaria, Czechoslovakia, France, Chile, Paraguay, Peru, Uruguay, French Guiana, Guadeloupe, Greece, Netherlands, Hungary, Iceland, Italy, Poland, Portugal, Afghanistan, Thailand, Burme, India, Indonesia, Iran, Iraq, Jordan, (Lebanon), Nepal, Pakistan, Qatar, Algeria, Dahomey, Ethiopia, Ghana, Republic of the Ivory Coast, (Cameroun), Kenya, Malawi, Mali, Rwanda, (Sengal), Sudan, Togo, Tunisia, Yemen, Canary Island, Bangladesh, Mozambique, Libya, Congo, Angola, The United Arab Emirates, S.R. of Viet Nam. Cyprus, Gibralter, Malta, Nigeria, Mauritius, Sierra Leone, Kuwait, Tanzania, Zambia, Uganda, Syria.
	SC	110/220	Flat 2-pin	Taiwan, Jamaica, Liberia, (Guam), Philippines, Honduras
	SD	120	Flat 2-pin	Republic of Panama, El Salvador, Trinidad and Tobago, Colombia, Nicaragua, Venezela, Mexico, Bermuda, Costa-Rica, Dominica, Ecuador, Guyana, Guatemala, Barbados.
	SE	220	Round 3-pin	Hong Kong
	SL	240	Square 3-pin	Fuji
SH		220	Round 3-pin	Republic of South Africa
SM		240	Square 3-pin	Singapore, Malaysia

NO.	PARTS CODE	PRICE RANK	Type of Lead		DESCRIPTION		MODEL NAME
			2 LEAD	3 LEAD			CS1630
1	QACCD1010CCZZ	AH	○		AC cord	USA, CANADA	
2	QACCD8411QCZZ	AN		○	AC cord	CANADA	○
3	QACCL1018CCZZ	AR	○		AC cord	KA, KC, SL	○
4	QACCL1013CCZZ	AP		○	AC cord	KA, KC, SL	
5	QCNW-1035CCZZ	AL	○		Cord Cable	KB, KE	○
	QPLGA6626RCZZ	AN	–	–	Plug	KB, KE	○
6	QCNW-1098CCZZ	AL		○	Cord cable	KB	
	QPLGA6626RCZZ	AN	–	–	Plug	KB	
7	QACCZ4120QCZZ	AQ	○		AC cord	SE	
8	QACCZ7120QCZZ	AR		○	AC cord	SE	
9	QCNW-1035CCZZ	AL	○		Cord cable	SH	○
	QPLGA0018WRE0	AN	–	–	Plug	SH	○
	PHOG-1023CCZZ	AB	–	–	Cord bush	SH	○
10	QCNW-1098CCZZ	AL		○	Cord cable	SH	
	QPLGA0018WRE0	AN	–	–	Plug	SH	
	PHOG-1023CCZZ	AB	–	–	Cord bush	SH	
11	QACCZ4121QCZZ	AR	○		AC cord	SM	○
12	QACCZ7121QCZZ	AR		○	AC cord	SM	
13	QACCE1421QCZZ	AN	○		AC cord	KV	○
14	QACCE1420QCZZ	AK	○		AC cord	SB, SP	
15	QACCJ1411QCZZ	AK	○		AC cord	SA, SC, SD	○
16	QACCA3440QCZZ	AK	○	–	AC cord	KD	○
17	QACCE1420QCZZ	AK	○		AC cord	SP	○
18	QPLGA1011CCZZ	AG	–	–	Plug	SP	○
19	QFSHi5002CCZZ	AD	–	–	Fuse holder	SP	○
20	QSW-R1357CCZZ	AG	–	–	Supply voltage select switch	SP	○

NOTE) 1. For SP: SL is included in KA.
2. For SP: SD (120V) set for 127V.
Refer to the "Caution label" TCAUA1210CCZZ (For AC cord), TCAUA1213CCZZ (For bottom cabinet).

[redacted]
CS-1630

SHARP

SHARP CORPORATION
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1986 August Printed in Japan Ⓢ